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Boundary and inertia effects on flow and heat transfer in porous media

K Vafai, CL Tien - Int. J. Heat Mass Transfer, 1981 - vafai.engr.ucr.edu

... boundary layer central to the **numerical** routine is ... Local volume averaging analysis

The averaging process is ... of a quantity Y associated with the **fluid** is thus ...

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Lattice Boltzmann method for fluid flows - all 11 versions »

S Chen, GD Doolen - Annual Review of Fluid Mechanics, 1998 - Annual Reviews

... these heuristic models yield good results for **fluid** flows around ... lid-driven

square-cavity **flow**, and **flow** over a ... From a **numerical analysis** point of view, the ...

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High-Resolution Conservative Algorithms for Advection in Incompressible Flow - all 4 versions »

RJ Leveque - SIAM Journal on Numerical Analysis, 1996 - JSTOR

... verified by a more careful error **analysis** in 6 ... also includes test data for the **numerical** examples presented ... in the context of volume-of-fluid interface tracking ...

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Stabilized finite element formulations for incompressible flow computations - all 6 versions »

TE Tezduyar - Advances in Applied Mechanics, 1991 - mems.rice.edu

... and the associated stability and accuracy **analysis** can be ... Sections III, IV, and V include **numerical** examples for ... denote the subdomain occupied by fluid A, and ...

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ENHANCEMENTS OF THE SIMPLE METHOD FOR PREDICTING INCOMPRESSIBLE FLUID FLOWS - all 4 versions »

JP Van Doormaal, GD Raithby - Numerical Heat Transfer, Part A: Applications, 1984 - informaworld.com

... method) are compared for two recirculating **flow** problems. ... of two- or three-dimensional, elliptic, **incompressible fluid** flows, and **numerical** methods of ...

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A Taylor-Galerkin-based algorithm for viscous incompressible flow - all 3 versions »

DM HAWKEN, HR TAMADDON-JAHROMI, P TOWNSEND, MF ... - International Journal for Numerical Methods in Fluids, 1990 - doi.wiley.com

... since their origins lie in compressible **fluid** dynamics, where ... that this step has a negligible **numerical** contribution, it ... background lies in the **analysis** of van ...

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Lagrangian finite element analysis applied to viscous free surface fluid flow - all 2 versions »

B Ramaswamy, M Kawahara - Int. J. Numer. Methods Fluids, 1987 - doi.wiley.com

... The capabilities of the **analysis** procedure and the ... several problems in viscous free surface **fluid** flow. ... with previous theoretical, **numerical** and experimental ...

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Computational fluid dynamics-An introduction for engineers

MB Abbott, DR Basco - Harlow, England/New York, Longman Scientific and Technical/ ..., 1989 - adsabs.harvard.edu

... Emphasis is on the **numerical** treatment of **incompressible** unsteady **fluid** flow with primary applications to water problems using the finite difference method. ...

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[... analysis of air-water two-phase flow across a staggered tube bundle using an incompressible two- ... - all 3 versions »](#)

T Uchiyama - Nucl. Sci. Eng, 2000 - osti.gov

Title, Numerical analysis of air-water two-phase flow across a staggered tube bundle using an incompressible two-fluid model. Creator/Author, Uchiyama, Tomomi. ...

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A Majda, AL Bertozzi - 2002 - cambridge.org

... Modern applied analysis approach to fluid mechanics. ... Broad range of topics including numerical methods, singularities, strong solutions, weak ...

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